



# STIC EIC 2100 Search Request Form

133167  
99

Today's Date: 9/22/04

What date would you like to use to limit the search?

Priority Date: 7/12/2001

Other:

Name \_\_\_\_\_ Trenton Roche \_\_\_\_\_

AU \_\_\_\_\_ 2124 \_\_\_\_\_ Examiner # \_\_\_\_\_ 79908 \_\_\_\_\_

Room # \_\_\_\_\_ CPK2-5D40 \_\_\_\_\_ Phone \_\_\_\_\_ 305-4627 \_\_\_\_\_

Serial # \_\_\_\_\_ 09/987,016 \_\_\_\_\_

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other \_\_\_\_\_

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

The claims are directed to a printer firmware installation system. The printer receives the firmware by downloading blocks over a network. When an interruption of some sort occurs (power outage, print job received) then the printer sends an interrupt message to the remote server, telling the server to stop sending information. Once the interruption is completed (power restored, print job finished) the printer checks to see what the last good block was, and resumes the download from there.

Specifically claim 12.

STIC Searcher Geoffrey ST-Leger Phone 308-7800

Date picked up 9/22/4 Date Completed 9/22/4





# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 133167

**TO: Trenton Roche**  
**Location: 5D40**  
**Art Unit : 2124**  
**Wednesday, September 22, 2004**

**Case Serial Number: 09/987016**

**From: Geoffrey St. Leger**  
**Location: EIC 2100**  
**PK2-4B30**  
**Phone: 308-7800**

**geoffrey.stleger@uspto.gov**

### Search Notes

Dear Examiner Roche,

Attached please find the results of your search request for application 09/987016. I searched Dialog's foreign patent files, technical databases, product announcement files and general files; along with the Internet.

Please let me know if you have any questions.

Regards,

Geoffrey St. Leger  
4B30/308-7800



# STIC Search Results Feedback Form

## EIC 2100

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Anne Hendrickson, EIC 2100 Team Leader  
308-7831, CPK2-4B40

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 2133

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2100 CPK2-4B40



File 275:Gale Group Computer DB(TM) 1983-2004/Sep 22  
     (c) 2004 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Sep 22  
     (c) 2004 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Sep 22  
     (c) 2004 The Gale Group  
 File 16:Gale Group PROMT(R) 1990-2004/Sep 22  
     (c) 2004 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2004/Sep 22  
     (c)2004 The Gale Group  
 File 624:McGraw-Hill Publications 1985-2004/Sep 20  
     (c) 2004 McGraw-Hill Co. Inc  
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 File 647:CMP Computer Fulltext 1988-2004/Sep W2  
     (c) 2004 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2004/Aug W4  
     (c) 2004 IDG Communications  
 File 696:DIALOG Telecom. Newsletters 1995-2004/Sep 21  
     (c) 2004 The Dialog Corp.  
 File 369:New Scientist 1994-2004/Sep W2  
     (c) 2004 Reed Business Information Ltd.  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
     (c) 1999 PR Newswire Association Inc  
 File 610:Business Wire 1999-2004/Sep 22  
     (c) 2004 Business Wire.  
 File 613:PR Newswire 1999-2004/Sep 22  
     (c) 2004 PR Newswire Association Inc

Set	Items	Description
S1	2215842	PRINT???
S2	15538120	DOWNLOAD??? OR RECEPTION? ? OR RECEIPT OR RECEIV??? OR RET- RIEV??? OR INSTAL? OR TRANSMISSION? ? OR TRANSMIT? OR DELIVERY OR TRANSFER? OR DISTRIBUT?
S3	146302	S2(5N)(INTERRUPT? OR DISRUPT? OR DELAY??? OR POSTPON??? OR (BREAK??? OR CUT???)()OFF OR RESCHEDUL? OR RE()SCHEDUL??? OR DEFER? OR SUSPEND? OR STOP???)
S4	69241	S2(5N)(DISCONTIN? OR TERMINAT? OR CANCEL? OR ABORT??? OR F- REEZ??? OR FROZEN OR HALT???)
S5	13323	S2(5N)(RESUM??? OR RESUMPTION OR RECOMMENC? OR RESTART??? - OR RE()START???)
S6	40	S1(30N)S3:S4(30N)S5
S7	22	RD (unique items)
S8	15790	PRINTER? ?(10N)(UPGRAD? OR UPDAT? OR FLASH??? OR FIRMWARE)
S9	0	S8(50N)S3:S4(50N)S5
S10	629318	S2(5N)(CONTINU???? OR COMMENC??? OR COMPLET? OR FINISH??? - OR CONCLUD??? OR RETURN???)
S11	2	S8(50N)S3:S4(50N)S10
S12	1	RD (unique items)
S13	10	PRINTER? ?(50N)S3:S4(50N)S5
S14	9	RD (unique items)
S15	89	PRINTER? ?(50N)S3:S4(50N)S10
S16	64	RD (unique items)
S17	57	S16 NOT (S7 OR S14 OR PD>20010712)

7/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02530422 SUPPLIER NUMBER: 77257309 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**STEALTH FIGHTERS. (seven antivirus programs) (Software Review) (Evaluation)**  
CAPTAIN, SEAN  
PC World, 19, 9, 129  
Sept, 2001  
DOCUMENT TYPE: Evaluation ISSN: 0737-8939 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 3294 LINE COUNT: 00306

... very readable book called Computer Viruses Demystgied. Like most of the other vendors, Sophos also includes PDF versions of its **printed** documents on the package's installation CD-ROM. Norton AntiVirus provides the best disc-based documentation, including four instructional videos...

...RUN into much trouble installing any of the programs, although Symantec's Norton Anti Virus was the hardest utility to **install** -- it required a **disruptive restart** midway through the process and another **restart** to **install** the updates.

We experienced a slight glitch while installing Panda Antivirus--although the program has a built-in registration utility...

7/3,K/2 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02458257 SUPPLIER NUMBER: 68162724 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Opera 5.0 changes tune to better compete. (Software Review) (Evaluation)**  
Rapoza, Jim  
eWeek, 85  
Dec 18, 2000  
DOCUMENT TYPE: Evaluation LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 718 LINE COUNT: 00059

... Using the built-in search bar, we could search the Web from almost any search engine. Opera can also now **resume interrupted downloads** -a capability that competing browsers have offered for some time.

Other new features in Opera 5.0 include a **print** preview option and an improved full-screen mode. The browser also now has America Online Inc.'s Mirabilis ICQ client...

7/3,K/3 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02406418 SUPPLIER NUMBER: 62710971 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Your Internet AV Center. (Evaluation)**  
Ozer, Jan  
PC Magazine, 47  
July 1, 2000  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 667 LINE COUNT: 00056

... multiple files, especially over analog connections. It includes features such as pause and resume and the ability to reconnect and **resume an interrupted download**. You can also schedule **downloads** for off-peak hours.

The Plus version of Real Entertainment Center includes a ten-band graphic equalizer with presets, the...

...and variable-bit-rate MP3 encoding, which shaved file sizes by about 10 percent on our tests. You can also **print** basic music track lists and

jewel case covers for your CD creations.  
All in all, the sheer dominance of RealNetworks...

7/3,K/4 (Item 4 from file: 275)  
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02256840 SUPPLIER NUMBER: 53482032 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tips On Web Downloading And Storage. (Technology Information)**  
Mendelson, Edward  
PC Magazine, 101(1)  
Jan 19, 1999  
ISSN: 0888-8507 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 422 LINE COUNT: 00034

... program and no longer have the registration code you paid for.  
\* Save Numbers  
If you pay for a program online, **print** out any order number or similar information that appears in the browser before you start **downloading**. If the **download** is **interrupted**, you may be able to **resume** the **download** by returning to the download site and entering your order number. Or you can e-mail the order number to...

7/3,K/5 (Item 5 from file: 275)  
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02210577 SUPPLIER NUMBER: 21043488 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Indigo turbo-powers Yours Truly. (Technology Information)**  
Seybold Report on Publishing Systems, v27, n21, pNA(1)  
August 17, 1998  
ISSN: 0736-7260 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 414 LINE COUNT: 00043

... 640 MB had to be broken into 640-MB units. For each of these units, the machine had to be **stopped**, the files **downloaded** and the job **restarted**, resulting in considerable downtime for large, personalized jobs. With the new architecture, large files can be rasterized offline, the raster data transferred to the TurboStream unit and the personalized job placed into the **print** queue to be run continuously.  
Now, instead of using RAM to hold raster data, the system uses a RAID disk...

7/3,K/6 (Item 6 from file: 275)  
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02168768 SUPPLIER NUMBER: 20422319 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Indigo offers RAID array with revamped E-Print. (E-Print 1000 TurboStream) (Product Announcement)**  
Seybold Report on Publishing Systems, v27, n12, p29(2)  
March 9, 1998  
DOCUMENT TYPE: Product Announcement ISSN: 0736-7260 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 1185 LINE COUNT: 00095

... of paper is required for the proof. The TurboStream architecture also allows electronic collation of pages into complete jobs to **print** back to front.  
In addition, the TurboStream enhances the personalization functions available through Indigo's personalization software. Many personalization jobs require large files sizes. Since the E- **Print** 1000+ could handle only 640 MB

at a time,  
large files had to be broken down into 640-MB units. For each of these units,  
the machine had to be **stopped**, the files **downloaded** and the job **restarted**,  
resulting in considerable downtime for large, personalized jobs. With the new  
architecture, large files can be rasterized offline, the raster data transferred to the TurboStream unit and the personalized job placed into the  
**print** queue to be run continuously.  
The system allows for late changes to the manner in which a job is **printed**,  
including switching from duplex to simplex **printing**, or vice versa,  
or  
inverting a job for printing in reversed mode on transparency material. It  
also allows some color...

7/3,K/7 (Item 7 from file: 275)  
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01864715 SUPPLIER NUMBER: 17603202 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Windows 95 Secrets. (book reviews)**  
Mendelson, Edward  
PC Magazine, v14, n21, p69(1)  
Dec 5, 1995  
DOCUMENT TYPE: Review ISSN: 0888-8507 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 518 LINE COUNT: 00044

... of shareware and freeware, most of it worthless, but Livingston and Straub one-up the competition by providing a one- **stop installation** program for virtually all the programs on the disk. If you don't like the one you just installed, you don't even have to **restart** the **installer** to try the next.

More detailed books exposing undocumented Windows features will appear over the next few months, but, for now, Windows 95 Secrets towers over the competition. It obviously was rushed into **print**, and suffers from dozens of misprints, but the basic information is highly reliable. If you buy only one Windows book...

7/3,K/8 (Item 8 from file: 275)  
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01805791 SUPPLIER NUMBER: 17262780 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Versatile remote comm. (MobileWare 2.0 remote access software from MobileWare Corp for NetWare, TCP/IP and Microsoft networks) (Brief Article) (Software Review) (Evaluation)**  
Rash, Wayne  
Windows Sources, v3, n8, p33(1)  
August, 1995  
DOCUMENT TYPE: Evaluation ISSN: 1065-9641 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 321 LINE COUNT: 00030

... Pretty annoying for the IS manager, but you can install it across the network.

Once set up, MobileWare supports remote **printing** and file transfers, as well as remote mail access, without requiring cc:Mail Remote. MobileWare can **resume interrupted transfers**: It automatically recovered when we momentarily unplugged the phone line in midstream. You manage MobileWare centrally, so you can define...

7/3,K/9 (Item 9 from file: 275)  
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01603609 SUPPLIER NUMBER: 13935975 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Imaging for the people. (Alacrity Systems Inc.'s E-Quip Desktop Document Manager 3.0, and Pinnacle Micro Inc.'s Paperless 1 document-management programs) (includes related 'Executive Summary' articles) (Software Review) (Test Drive) (Evaluation)**  
Carroll, Dan; Hurwicz, Mike  
LAN Magazine, v8, n7, p152(8)  
July, 1993  
DOCUMENT TYPE: Evaluation ISSN: 0898-0012 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 6927 LINE COUNT: 00522

... user functions. For example, it can delete active print jobs. It is also used to distribute incoming faxes. The Group **Print** Server is used for functions such as selecting the **printer** paper tray, inserting separator sheets between **print** jobs, reordering **print** jobs, and deleting **print** jobs.

The Group Fax Outbox is used to monitor and control the transmission of outgoing faxes for the whole group, performing operations such as reordering the priority of outgoing faxes, pausing and **resuming** fax **transmissions**, and **cancelling** or re| sending individual faxes. The Group Fax Outbox shows the current status of the fax line. It also maintains...

7/3,K/10 (Item 10 from file: 275)  
DIALOG(R) File 275:Gale Group Computer DB(TM)  
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01080354 SUPPLIER NUMBER: 00565663  
**A Bit of Printerfacing.**  
Gibson, S.  
InfoWorld, v6, n32, p48  
Aug. 6, 1984  
ISSN: 0199-6649 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: a stream of bits in sequence. Methods to govern the flow of data from the fast computer to the slower **printer** are called protocol. The Centronics parallel interface has a built-in hardware handshaking protocol called a strobe and acknowledge system...

...uses a hardware handshaking protocol called clear-to-send. In remote operations, a software handshaking protocol must be used. The **printer** sends an 'XOFF' character to **stop transmission** of data, and an 'XON' character to **resume transmission**. To do this, the **printer** must be 'smart' and contain a microprocessor and buffer.

7/3,K/11 (Item 1 from file: 621)  
DIALOG(R) File 621:Gale Group New Prod.Annou.(R)  
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02118098 Supplier Number: 55148304 (USE FORMAT 7 FOR FULLTEXT)  
**e-Parcel Announces e-Parcel Service for Macintosh.**  
Business Wire, p1020  
July 14, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 697

... Parcel has no delivery file size limit and you do not need to 'baby-sit' or continuously monitor your data **transfers**. e-Parcel deliveries are **interruptible**, which means that even if your connection to the Internet is disconnected, re-establishing the connection will



automatically **resume** your **delivery** from the point of the **interruption** . e-Parcel works over dial-up as well as direct connections to the Internet.

"We are proud to announce 'e-Parcel(R) Service' for Macintosh," said Hiroshi Kobata, President & CEO of e-Parcel, LLC. "The openness and cooperation of the **printing** and publishing industries allowed us to tailor develop the Macintosh version of e-Parcel just for them. We believe e...

7/3,K/12 (Item 2 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01907233 Supplier Number: 55000546 (USE FORMAT 7 FOR FULLTEXT)  
**Otsuka Pharmaceutical Selects e-Parcel for Data Delivery.**  
Business Wire, p1047  
June 28, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 623

... are interruptible. This means that even if your connection to the Internet is disconnected, re-establishing the connection will automatically **resume** your **delivery** from the point of the **interruption** .

e-Parcel, LLC, is the industry leader in customized software solutions for mission critical data deployment with over 20,000 corporate customers worldwide and partnerships with Compaq, Toyota, Hakuhodo, and Dai Nippon **Printing** .

e-Parcel was founded in 1996 as a Division of Mitsubishi and was spun off in April of 1998 and...

7/3,K/13 (Item 3 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01688369 Supplier Number: 50226608 (USE FORMAT 7 FOR FULLTEXT)  
**NaviSite Selected By e-Parcel to Provide High-End, Value-Added Web Hosting Services for Virtual Warehouse.**  
Business Wire, p8051046  
August 5, 1998  
Language: English Record Type: Fulltext  
Article Type: Article  
Document Type: Newswire; Trade  
Word Count: 986

... Service solves the business problems associated with e-mail and traditional courier services using automated double-encryption and compression, authentication, **receipt** and open confirmation, and an **interruptible** protocol. If the Internet connection goes down during a delivery, users need only to re-establish the connection and e-Parcel Service automatically **resumes** the **delivery** from the point of **interruption** . This also allows customers to turn off their PC at any time, as **delivery** automatically **resumes** when the PC is turned on again. In addition, e-Parcel Service protects the copyright of users' files by preventing recipients from saving, modifying, forwarding or **printing** the sent file. The e-Parcel Service software is free, there is no setup fee or base monthly charge.

About...

7/3,K/14 (Item 4 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01673755 Supplier Number: 50151074 (USE FORMAT 7 FOR FULLTEXT)  
**e-Parcel and Compaq Provide Electronic File Delivery Service for Small and**

**Medium Business.**

Business Wire, p07081396

July 8, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Newswire; Trade

Word Count: 887

... file, and its interruptible protocol. If an Internet connection goes down during a delivery, re-establishing the connection will automatically **resume delivery** from the point of the **interruption**. This also allows the recipient to turn off his PC at any time during a delivery the delivery will automatically...

...takes a direct approach for protecting the copyright of files by preventing the recipient from saving, modifying, forwarding and even **printing** the sent file. Compaq e-Parcel Service files are automatically compressed and encrypted when sent and decrypted and uncompressed upon...

**7/3,K/15 (Item 5 from file: 621)**

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01145625 Supplier Number: 41642735 (USE FORMAT 7 FOR FULLTEXT)

**SAVINFAX (R) 630 PLAIN PAPER LASER FACSIMILE MACHINE OFFERS SUPERIOR TELECOMMUNICATIONS CAPABILITIES**

News Release, p1

Nov, 1990

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 492

...  
A 73-page Store and Forward Memory with Substitution Reception stores incoming documents in memory should paper run out during **transmission**, and automatically **resumes printing** when paper is replenished. The Scan & Send feature memorizes and sends a page in as little as 11 seconds while...

...Efficient and Cost-Effective

The SAVINFAX 630 has several functions designed to increase communication range, efficiency and cost-effectiveness.

The **Delayed Transmission** feature lets users program up to 99 documents to various locations during work hours and will automatically delay transmission until...

**7/3,K/16 (Item 6 from file: 621)**

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01019101 Supplier Number: 39674333 (USE FORMAT 7 FOR FULLTEXT)

**DATAPASS NOW AVAILABLE FOR IBM VM/CMS SYSTEMS**

PR Newswire, pN/A

Jan 13, 1986

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 374

... DaTapaSS can also be used for PC-to-PC communications.

The product offers key-selectable signon sequences, programmable softkeys, automatic **restart** and recovery of **interrupted transfers**

unattended batch **transfer** , VT100 emulation, and full access to DOS functions without loss of the host connection. With DaTapaSS, users can save or **print** terminal sessions, utilize multiple communications ports, and create macros to reduce repeat transactions to a single keystroke.

"Although the IBM...

7/3,K/17 (Item 7 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01009104 Supplier Number: 39583025 (USE FORMAT 7 FOR FULLTEXT)  
**METROPOLITAN SUBSIDIARY RELEASES MICRO COMMUNICATIONS PRODUCT: CONNECTS  
PC'S TO UNIX, GCOS SYSTEMS**  
PR Newswire, pN/A  
Sept 1, 1985  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 315

... also be used for  
PC-to-PC communications.

The product offers terminal emulation, key-selectable signon sequences, programmable softkeys, automatic **restart** and recovery of **interrupted transfers**  
, and full access to DOS functions without loss of the host connection. With DaTapaSS, users can save or **print** terminal sessions, utilize multiple communications ports, and create macros to reduce repeat transactions to a single keystroke.

"As experts in...

7/3,K/18 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07550817 Supplier Number: 63174933 (USE FORMAT 7 FOR FULLTEXT)  
**Hold Those Phone Books.(Brief Article)**  
Multichannel News, v21, n24, p35  
June 12, 2000  
Language: English Record Type: Fulltext  
Article Type: Brief Article  
Document Type: Magazine/Journal; Trade  
Word Count: 198

... unlisted.  
Cox executives maintained that they want to pay to retrieve almost 500,000 directories already in circulation and to **print** revised directories. PacBell executives said they quoted Cox a price, and when Cox executives did not commit to a reprint in mid-May, the utility **resumed distribution** . The June 2 order **halted** that **distribution** .

Both companies will appear before the PUC June 12.

Regulators have previously had to oversee misprint remedies. In 1998, GTE Corp., the state's second-largest telephone provider, accidentally **printed** the names of thousands of its own customers who wished to remain unlist-the utility were not passed through to...

7/3,K/19 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02991508 Supplier Number: 44057149  
**1 firm dropped from used-CDs suit**

San Diego Union-Tribune (CA), pC1  
August 28, 1993  
Language: English Record Type: Abstract  
Document Type: Newspaper; Trade

ABSTRACT:

Wherehouse Entertainment (Torrance, CA) has reached an agreement with CEMA **Distribution** to **resume** cooperative advertising. Therefore, Wherehouse has dropped CEMA from its lawsuit involving 3 other distribution companies. Sony, Uni and WEA **Distribution discontinued** financial backing for cooperative radio and **print** advertising after Wherehouse began selling used audio compact discs (CDs) in 5/93. Under the agreement, Wherehouse will not sell...

7/3,K/20 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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01902047 Supplier Number: 42421450 (USE FORMAT 7 FOR FULLTEXT)  
**How media aided Soviet coup resisters**  
Advertising Age, v62, n43, p28  
Oct 7, 1991  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; Trade  
Word Count: 1569

... the government media, such as Radio Moscow, had been taken over by the coup plotters and forced to broadcast and **print** their decrees.

The independent media, however, worked hard to bring news from the Russian Parliament building, known as the White House, where the center of the resistance was taking root.

The independent radio station Echo of Moscow was **cut off** from its **transmitters** but soon **resumed** broadcasting, the link with **transmitters** being somewhat mysteriously restored through the Moscow telephone network. Echo of Moscow never revealed the secret of how it got back on the air.

Independent newspapers, their **print** shops shut, resorted to copy machines and telefaxes. Tens of thousands of Boris Yeltsin's decrees and chronicles of the...

7/3,K/21 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

11065216 SUPPLIER NUMBER: 54704047 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Your take on: Software costs\*Not-so-geeky Linux\*Help for the stranded. (Letter to the Editor)**  
PC World, 17, 5, 19  
May, 1999  
DOCUMENT TYPE: Letter to the Editor ISSN: 0737-8939 LANGUAGE:  
English RECORD TYPE: Fulltext  
WORD COUNT: 1578 LINE COUNT: 00122

... is free, open-source software that will be distributed by Red Hat and other companies.

In March's Top 10 **Printers**, we errantly referred to the HP LaserJet 2100 as the HP DeskJet 2100.

March's "Good Providers: The Best National...

...of San Jose, California.

February's New Products review of NetZip Deluxe 6.3 noted the software's ability to **resume** a Net **download** at the point of **interruption**. This feature works only when the server at the other end supports it.

In February's "Virucide!" feature, we indicated...

7/3,K/22 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

00602434 CMP ACCESSION NUMBER: CSN19910429S2027  
**TRITICOM UPGRADES LAN MONITOR LINE** (Briefs)  
COMPUTER SYSTEMS NEWS, 1991, n 512, 28  
PUBLICATION DATE: 910429  
JOURNAL CODE: CSN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: NETWORK PRODUCTS  
WORD COUNT: 511

... 2.0, priced at \$199, lets users share a single modem or multiple modems on asynchronous communications servers. A separate **printing** option allows users to share networked **printers** through BIOS redirectors.

The software also supports a mouse, which enables the use of windowed interfaces and emulation of Digital Equipment Corp. VT 52, 100 and 102 terminals.

The ZMODEM protocol **resumes interrupted file transfers** and performs multiple selective transfers based on user choices, Hayes said.

Smartcom III v2.0 supports multiple sessions and the...

File 8: Ei Compendex(R) 1970-2004/Sep W2  
 (c) 2004 Elsevier Eng. Info. Inc.  
 File 35: Dissertation Abs Online 1861-2004/Aug  
 (c) 2004 ProQuest Info&Learning  
 File 202: Info. Sci. & Tech. Abs. 1966-2004/Sep 09  
 (c) 2004 EBSCO Publishing  
 File 65: Inside Conferences 1993-2004/Sep W3  
 (c) 2004 BLDSC all rts. reserv.  
 File 2: INSPEC 1969-2004/Sep W2  
 (c) 2004 Institution of Electrical Engineers  
 File 233: Internet & Personal Comp. Abs. 1981-2003/Sep  
 (c) 2003 EBSCO Pub.  
 File 94: JICST-EPlus 1985-2004/Aug W4  
 (c) 2004 Japan Science and Tech Corp (JST)  
 File 483: Newspaper Abs Daily 1986-2004/Sep 21  
 (c) 2004 ProQuest Info&Learning  
 File 6: NTIS 1964-2004/Sep W3  
 (c) 2004 NTIS, Intl Cpyrght All Rights Res  
 File 144: Pascal 1973-2004/Sep W2  
 (c) 2004 INIST/CNRS  
 File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 (c) 1998 Inst for Sci Info  
 File 34: SciSearch(R) Cited Ref Sci 1990-2004/Sep W2  
 (c) 2004 Inst for Sci Info  
 File 99: Wilson Appl. Sci & Tech Abs 1983-2004/Aug  
 (c) 2004 The HW Wilson Co.  
 File 583: Gale Group Globalbase(TM) 1986-2002/Dec 13  
 (c) 2002 The Gale Group  
 File 266: FEDRIP 2004/Jun  
 Comp & dist by NTIS, Intl Copyright All Rights Res  
 File 95: TEME-Technology & Management 1989-2004/Jun W1  
 (c) 2004 FIZ TECHNIK  
 File 438: Library Lit. & Info. Science 1984-2004/Aug  
 (c) 2004 The HW Wilson Co  
 File 256: TecInfoSource 82-2004/Jul  
 (c) 2004 Info.Sources Inc

Set	Items	Description
S1	431686	PRINT???
S2	10299529	DOWNLOAD??? OR RECEPTION? ? OR RECEIPT OR RECEIV??? OR RET- RIEV??? OR INSTAL? OR TRANSMISSION? ? OR TRANSMIT? OR DELIVERY OR TRANSFER? OR DISTRIBUT?
S3	61072	S2(5N) (INTERRUPT? OR DISRUPT? OR DELAY??? OR POSTPON??? OR (BREAK??? OR CUT???) () OFF OR RESCHEDUL? OR RE() SCHEDUL??? OR DEFER? OR SUSPEND? OR STOP???)
S4	35636	S2(5N) (DISCONTIN? OR TERMINAT? OR CANCEL? OR ABORT??? OR F- REEZ??? OR FROZEN OR HALT???)
S5	1556	S2(5N) (RESUM??? OR RESUMPTION OR RECOMMENC? OR RESTART??? - OR RE() START???)
S6	140456	S2(5N) (CONTINU???? OR COMMENC??? OR COMPLET? OR FINISH??? - OR CONCLUD??? OR RETURN???)
S7	1	S1 AND S3:S4 AND S5
S8	15	S1 AND S3:S4 AND S6
S9	16	S7:S8
S10	11	RD (unique items)

10/TI/1 (Item 1 from file: 8)  
DIALOG(R)File 8:(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

Title: Fast simulation of reflection and crosstalk effects using a pade approximation

10/TI/2 (Item 2 from file: 8)  
DIALOG(R)File 8:(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

Title: Transient simulation of complex, lossy, multi-port transmission line networks with nonlinear digital device termination using a circuit simulator.

10/TI/3 (Item 3 from file: 8)  
DIALOG(R)File 8:(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

Title: Joint efforts cut heat costs.

10/TI/4 (Item 4 from file: 8)  
DIALOG(R)File 8:(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

Title: ADJUSTABLE-WIDTH PAPER GUILLotine MECHANISM.

10/TI/5 (Item 1 from file: 202)  
DIALOG(R)File 202:(c) 2004 EBSCO Publishing. All rts. reserv.

Method and apparatus for registering and retrieving primary information on the basis of secondary information.

10/TI/6 (Item 1 from file: 2)  
DIALOG(R)File 2:(c) 2004 Institution of Electrical Engineers. All rts. reserv.

Title: U.S. government (depository items)

10/TI/7 (Item 2 from file: 2)  
DIALOG(R)File 2:(c) 2004 Institution of Electrical Engineers. All rts. reserv.

Title: Desktop document retrieval melts away inefficiency for frozen seafood supplier

10/TI/8 (Item 3 from file: 2)  
DIALOG(R)File 2:(c) 2004 Institution of Electrical Engineers. All rts. reserv.

Title: Motor control circuit

10/TI/9 (Item 1 from file: 483)  
DIALOG(R)File 483:(c) 2004 ProQuest Info&Learning. All rts. reserv.

Movies; 'Rings' master; Director Peter Jackson discusses his seven years on the Tolkien trilogy.

10/TI/10 (Item 1 from file: 6)  
DIALOG(R)File 6:(c) 2004 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

Pesticide Product Label System (PPLS) (on CD-ROM)

(Database)

10/11/11 (Item 1 from file: 583)

DIALOG(R)File 583:(c) 2002 The Gale Group. All rts. reserv.

LINOTYPE DELAYS INSTALLATIONS OF LINOCOLOR SYSTEM

UK - LINOTYPE DELAYS INSTALLATIONS OF LINOCOLOR SYSTEM



File 348:EUROPEAN PATENTS 1978-2004/Sep W02

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040916,UT=20040909

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	217263	PRINT???
S2	1506705	DOWNLOAD??? OR RECEPTION? ? OR RECEIPT OR RECEIV??? OR RET- RIEV??? OR INSTAL? OR TRANSMISSION? ? OR TRANSMIT? OR DELIVERY OR TRANSFER???? OR DISTRIBUT?
S3	73539	S2(5N)(INTERRUPT? OR DISRUPT? OR DELAY??? OR POSTPON??? OR (BREAK??? OR CUT????)()OFF OR RESCHEDUL? OR RE()SCHEDUL??? OR DEFER? OR SUSPEND? OR STOP???)
S4	34555	S2(5N)(DISCONTIN? OR TERMINAT? OR CANCEL? OR ABORT??? OR F- REEZ??? OR FROZEN OR HALT???)
S5	5187	S2(5N)(RESUM??? OR RESUMPTION OR RECOMMENC? OR RESTART??? - OR RE()START???)
S6	60	S1(50N)S3:S4(50N)S5
S7	41	S1/TI,AB,CM AND S6
S8	14	S7 AND AC=US/PR
S9	12	S8 AND AY=(1970:2001)/PR
S10	32	S7 AND PY=1970:2001
S11	34	S9:S10
S12	37	S6 AND S1/TI,AB
S13	12	S12 AND AC=US/PR
S14	10	S13 AND AY=(1970:2001)/PR
S15	29	S12 AND PY=1970:2001
S16	31	S14:S15

16/3,K/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01321398

Print job management system

Druckjob-Verwaltungssystem

Systeme de gestion de tache d'imprimante

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1128259 A2 010829 (Basic)

APPLICATION (CC, No, Date): EP 2001101255 010119;

PRIORITY (CC, No, Date): JP 200013657 000124

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT WORD COUNT: 155

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200135	825
SPEC A	(English)	200135	6777
Total word count - document A			7602
Total word count - document B			0
Total word count - documents A + B			7602

Print job management system

...ABSTRACT A2

The present invention provides a spooler that adequately manages and controls **print** jobs, which require establishment of mutual communication, with relieved loading. In the arrangement of the present invention, a buffer is provided corresponding to each **printer** PRT connected to a network LAN to successively spool **print** jobs transferred from clients. In the case of a conventional **print** job, a **print** queue and whole **print** data are spooled in the buffer. In the case of an interactive **print** job that requires mutual communication between the client and the **printer**, only the **print** queue is stored in the buffer, while a wait signal is output to the client to wait for transmission of the **print** data of the **print** job. In order to carry out the interactive **print** job, **printing** is executed via a bypass that establishes the mutual communication not via the buffer but directly between a **print** job execution unit and the client.

...SPECIFICATION interactive print job and information specifying a print data generating apparatus that has transmitted the **print** job of interest.

Here the predetermined data set intrinsically may be any data having a

...

...head part of packet data representing a print job. This corresponds to an application that **discontinues** the **transmission** of the print job at the time when the print job of interest is recognized as the interactive print job. At the time of executing the print job, the system **resumes**

receiving a subsequent part of the packet data following the head part, which has already been...

...management apparatus of the present invention that carries out management and control of the interactive **print** job without receiving the whole **print** job, the **print** job input unit outputs a specific interruption signal to a **print** data generating apparatus, which is transmitting the **print** job of interest, to **discontinue** the **transmission** of the **print** job when it is determined that the **print** job of interest is the interactive **print** job.

In the **print** job management apparatus of the present invention, the interactive **print** job execution unit may indirectly establish the mutual communication via the buffer. The more preferable...

16/3,K/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01319574

Printer , printing method, and data storage medium  
Drucker, Druckverfahren, und Datenspeichermedium  
Imprimante, methode d'impression, et support d'enregistrement de donnees  
PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730004), 4-1, Nishishinjuku 2-chome,  
Shinjuku-ku, Tokyo 163-0811, (JP), (Applicant designated States: all)

INVENTOR:

Minowa, Masahiro, c/o Seiko Epson Corporation, 3-5, Owa 3-chome,  
Suwa-shi, Nagano-ken 392-0811, (JP)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1128323 A2 010829 (Basic)  
EP 1128323 A3 020529

APPLICATION (CC, No, Date): EP 2000128130 001222;

PRIORITY (CC, No, Date): JP 99371200 991227

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06K-015/10; B41J-019/20

ABSTRACT WORD COUNT: 183

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200135	2285
SPEC A	(English)	200135	7804
Total word count - document A			10089
Total word count - document B			0
Total word count - documents A + B			10089

Printer , printing method, and data storage medium

...ABSTRACT A2

A **printer** and **printing** method suitable for high speed multicolor **printing** . A paper transport section (112) advances the **printing** medium (113), and a **print** head (110) **prints** text or graphics on the **printing** medium (113) by driving **printing** elements corresponding to a plurality of colors. A transport unit (111) moves the **print** head (110) orthogonally to the direction in which the **printing** medium (113) travels. A plurality of image buffer units (109) store information indicating where the **printing** elements are driven. A logic device (102) performs a logic operation on information read from image buffer units (109) to detect whether at least one of the **printing** elements is driven at a particular dot column position. A logic operation results memory (114) stores the logic operation results correlated to a **print** head

(110) position. Using the information stored in the logic operation results memory (114), a **print** head movement range calculator (102) determines the range of **print** head (110) movement, and a movement controller (102) drives a the transport unit (111) to move the **print** head (110) in the obtained movement range.

...SPECIFICATION is not essential to the invention and any type of cut-sheet paper or other **printing** medium may be used instead.

A CPU 102 controls the various parts of the printer...

...host device 106 is received, an interrupt is issued to the CPU 102, and a **receive interrupt** process is started. The **receive interrupt** process sequentially stores the **received** data in a receive buffer 108 in a FIFO (first in, first out) order, and...

...the receive buffer 108 is full, the host device 106 is so notified and the **receive interrupt** process ends. This notification is accomplished by the normal control process sending a busy signal...

...the printer 101 so notifies the host device 106 and, in response to the data **transfer** being **resumed**, the **receive interrupt** process is started again.

The CPU 102 reads the data stored in receive buffer 108 in a FIFO manner during the normal control process, detects the type of command or **print** data contained in the received data, and runs processes corresponding to the received data type.

If the stored data is a **print** command for **printing** text or images, a corresponding bitmap image is developed and temporarily stored in an image...

16/3,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01308881

METHOD FOR TRANSFERRING PRINTING DATA AND IMAGE DATA  
UBERTRAGUNGSVERFAHREN FUR DRUCKERDATEN UND BILDDATEN  
TRANSFERT DE DONNEES D'IMPRESSION ET DE DONNEES D'IMAGE  
PATENT ASSIGNEE:

Sony Corporation, (214028), 7-35, Kitashinagawa 6-chome, Shinagawa-ku,  
Tokyo 141-0001, (JP), (Applicant designated States: all)

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KOJIMA, Takashi, Sony Corporation, 7-35, Kitashinagawa 6-chome,  
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1162837 A1 011212 (Basic)  
WO 200141431 010607

APPLICATION (CC, No, Date): EP 2000979083 001204; WO 2000JP8583 001204

PRIORITY (CC, No, Date): JP 99345471 991203; JP 99350866 991209

DESIGNATED STATES: DE; FR; GB; IE; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-005/765; G06F-003/12; B41J-029/38

ABSTRACT WORD COUNT: 131

NOTE:

Figure number on first page: 024

LANGUAGE (Publication,Procedural,Application): English; English; Japanese  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200150	1860
SPEC A	(English)	200150	13754
Total word count - document A			15614
Total word count - document B			0

## METHOD FOR TRANSFERRING PRINTING DATA AND IMAGE DATA

### ...ABSTRACT A1

If bus resetting occurs during transmission of **printing** data (ST21), a **printer** device is requested to transmit the information output before the occurrence of bus resetting by...

...STB, the information input before the occurrence of the bus resetting is output from the **printing** device to the STB (R18). Based on the information input responsive to the request, **printing** data is again output from the STB to the **printing** device (C19). So, the system itself recognizes the information output by the STB before the...

...out in a shorter time even when the bus resetting occurs to shorten the entire **printing** time.

...SPECIFICATION Specifically, the page denotes a processing unit performed on one picture pattern comprehended in a **printing** medium.

Referring to Fig.9, the subfunction information (subfunction) may be enumerated by the information...

...and termed "get(underscore)status".

The data conversion unit 13 sets the subfunction to (01 ( **receive** )), (02 (restore)), (03 ( **abort** )) and to (04 (get(underscore)status)) when demanding the **printing** device 5 to receive **printing** data, when causing the **printing** device 5 to **re - start transmission** of **printing** data, when notifying the **printing** device 5 to **discontinue** the **transmission** of **printing** data and when inquiring the **printing** device 5 as to the state of acquisition of the **printing** data, respectively. If the subfunction is other than 01, 02, 03 or 04 in hex... to the capturing mode M2.

If, in the capturing mode M2, transmission of the entire **printing** data from the data conversion unit 13 to the data input unit 31 comes to ...

...reset to the capturing mode M2. In the capturing mode M2, reset from the wait/ **restart** mode M3, data **transmission** processing is started as from the **printing** data next following the **printing** data transmitted from the data conversion unit 13 to the data input unit 31 immediately...

...bus resetting.

If, in the wait/restart mode M3, a capture command, having the subfunction **aborted** , is **transmitted** from the data conversion unit 13 to the data input unit 31, the data **transmission** processing is **discontinued** , with the mode being reset to the idle mode M1. If, in this wait/restart...

...transmitted to the data conversion unit 13 (Fig.32 (d)). The data conversion unit 13 **discontinues** data **transmission** after a pre-set time (10 sec) as from the step ST21, and proceeds to **re - starting** data **transmission** to effect data **transmission** as from the time immediately before step ST21.

When proceeding to **discontinue** the data **transmission** , the data conversion unit 13 formulates a capture command stating (03 ( **abort** )) in the subfunction to **transmit** the so-formulated capture command to the data input unit 31. The data conversion unit...command, in this order, to annul the asynchronous connection between the STB 3 and the **printing** device 5.

When proceeding to **re - start** the data **transmission** , the data conversion unit 13 transmits a command packet comprehending the ALLOCATE command to the...

01278199

Print system, service system, data server, master server, print client system and printer  
Druckersystem, Dienstsysteem, Datenserver, Hauptserver, Druckerkundensystem und Drucker  
Systeme d'impression, systeme de service, serveur de donnees, serveur maitre, systeme de client d'impression et imprimante

PATENT ASSIGNEE:

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INVENTOR:

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Yanagimachi, Noriyuki, c/o Konica Corporation, 26-2 Nishishinjuku 1-chome, Shinjuku-ku, Tokyo, (JP)  
Inai, Masayuki, c/o Konica Corporation, 2970 Ishikawa-cho, Hachioji-shi, Tokyo, (JP)  
Nakazawa, Toshihiko, c/o Konica Corporation, 2970 Ishikawa-cho, Hachioji-shi, Tokyo, (JP)  
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PATENT (CC, No, Kind, Date): EP 1100003 A2 010516 (Basic)  
EP 1100003 A3 040526

APPLICATION (CC, No, Date): EP 2000123539 001027;

PRIORITY (CC, No, Date): JP 99345201 991027; JP 2000124049 000425; JP 2000186167 000621

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04L-029/06; G06F-003/12

ABSTRACT WORD COUNT: 114

NOTE:

Figure number on first page: 3

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200120	1413
SPEC A	(English)	200120	37291
Total word count - document A			38704
Total word count - document B			0
Total word count - documents A + B			38704

Print system, service system, data server, master server, print client system and printer

...ABSTRACT A2

A **print** system for use through a network comprises a service system connected to the network and...

...a plurality of data are stored in a plurality of data storing locations; and a **printer** client system connected to the network and having a **printer**, wherein the **printer** client system accesses the service system through the network so as to obtain a data...

...the request data from the obtained data storing location of the storage section, and conducts **printing** on the basis of the request data by the **printer**; and wherein the **printer** client system notifies the **printing** result to the service system.

...SPECIFICATION image memory sizes, wherein, memory overflow can be prevented by transmitting the succeeding part when **printing** for one preceding part is completed, or when it is confirmed, even in the course of **printing**, that sufficient unoccupied capacity is secured for image memory, which is preferable. The data conversion...

...division is made in accordance with the number of pages which can be stored in **printer** client 40 at a time.

Further, it is also a preferable procedure wherein, when an image memory overflows, **printer** client 40 notifies this so that data server 10 **suspends transmission** of text data momentarily, and it **resumes** the **transmission** of text data when unoccupied capacity for image memory in **printer** client 40 is secured.

For example, with regard to paper handling in a laser **printer** of an electrophotographic system, there is known a technology wherein when conducting double-sided copying...

...section, within a period of time in which the first recording sheet is reversed and **printing** is conducted on the reverse side of the first recording sheet. In the case of a laser **printer** having the structure to feed five recording sheets in a circulating path, as an example... division is made in accordance with the number of pages which can be stored in **printer** client 40 at a time.

Further, it is also a preferable procedure wherein, when an image memory overflows, **printer** client 40 notifies this so that data server 10 **suspends transmission** of image data momentarily, and it **resumes** the **transmission** of image data when unoccupied capacity for image memory in **printer** client 40 is secured.

For example, with regard to paper handling in a laser **printer** of an electrophotographic system, there is known a technology wherein when conducting double-sided copying...

...on the reverse side of the first recording sheet. In the case of a laser **printer** having the structure to feed five recording sheets in a circulating path, as an example...

16/3,K/5 (Item 5 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01267677

**Auditing system for a digital copier- printer**

**Überwachungssystem für einen digitalen Kopierer-Drucker**

**Systeme de verification pour un copieur-imprimante**

PATENT ASSIGNEE:

Xerox Corporation, (219787), Xerox Square - 20A, 100 Clinton Avenue South  
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PATENT (CC, No, Kind, Date): EP 1093289 A2 010418 (Basic)  
EP 1093289 A3 020206

APPLICATION (CC, No, Date): EP 2000308938 001011;

PRIORITY (CC, No, Date): US 418235 991014

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/34

ABSTRACT WORD COUNT: 81

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200116	285
SPEC A	(English)	200116	2996
Total word count - document A			3281

Total word count - document B 0  
Total word count - documents A + B 3281

#### Auditing system for a digital copier- printer

##### ...ABSTRACT A2

A multifunction digital **printing** apparatus, such as a copier- **printer**, in which image data from **print** jobs are intermingled with image data from copy jobs, such as originating from a digital...

...only functions such as electronic filing and sending facsimiles can be performed without need for **printing** hardware. An auditing device (50) can decrement a user's account on a per-sheet basis regardless of whether a requested job requires the use of the scanner or **printing** hardware or both.

...SPECIFICATION user runs out of credit, the audit system 50 disables the scanner 14 and image **transfer stops**. Once the audit system 50 is re-enabled by the addition of more credit, image **transfer resumes**.  
According to a preferred embodiment of the present invention, the audit system 50 is designed...

...ensure that only successfully scanned or fed sheets are monitored. With particular reference to the **printing** hardware 18 (although the principle can apply to scanner 14 as well), there is provided...

...the paper path, such as near the stack from which original sheets are drawn for **printing** thereon, and a second, "sheet delivered" sensor SD, which is preferably disposed downstream of the...

16/3,K/6 (Item 6 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01264560

Digital copying machine, image formation system, and digital copying machine as slave machine

Digitales Kopiergerät, Bilderzeugungssystem und als Sklave-Maschine arbeitendes digitales Kopiergerät

Dipositif numerique de copie, systeme de formation d'images et dispositif numerique de copie fonctionnant comme une machine esclave

##### PATENT ASSIGNEE:

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##### INVENTOR:

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Ishiguro, Hisashi, Ricoh Company, Ltd., 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, (JP)

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PATENT (CC, No, Kind, Date): EP 1091562 A1 010411 (Basic)

APPLICATION (CC, No, Date): EP 121210 000929;

PRIORITY (CC, No, Date): JP 99280716 990930; JP 3620002708 000906

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/32

ABSTRACT WORD COUNT: 113

##### NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

##### FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200115	4343



SPEC A (English) 200115 22713  
Total word count - document A 27056  
Total word count - document B 0  
Total word count - documents A + B 27056

...ABSTRACT digital copying machines share the job of executing copy operation on the document, and a **printer** function of **printing** according to a **print** request from the outside. When receiving the **print** request from the outside during the copy operation based on the link copy function from its start to finish, the digital copying machine puts the **print** request on hold.

...SPECIFICATION been finished, the process proceeds to step T502, where it is determined whether an instruction ( **print** request) to start **print** operation by the **printer** has been received from the outside. As a result of this determination, when it is determined that the instruction ( **print** request) to start **print** operation by the **printer** has not been received from the outside, the process returns to step T500. On the other hand, when it is determined that the instruction ( **print** request) to start **print** operation by the **printer** has been received from the outside, the slave machine **transmits** a request to **interrupt** the link copying (step T503) to the master machine, and interrupts the link copy operation (step T504). The slave machine then executes the **printer** operation based on the **print** request (step T505), and when the **printer** operation has been finished (step T506), the process proceeds to step T507, where the slave machine **transmits** a request to **restart** the link copying to the master machine (step T507).

On the other hand, the master...

16/3,K/7 (Item 7 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01259736

Print order receiving apparatus  
Gerat zum Empfangen von Druckauftragen  
Appareil pour la reception d'instructions d'impression  
PATENT ASSIGNEE:

KONICA CORPORATION, (206976), 26-2 Nishishinjuku 1-chome, Shinjuku-ku,  
Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

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191-8511, (JP)

Uemura, Hiroyuki, Konica Corporation, 1 Sakura-machi, Hino-shi, Tokyo  
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LEGAL REPRESENTATIVE:

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Inn, London WC1R 5JJ, (GB)

PATENT (CC, No, Kind, Date): EP 1087607 A2 010328 (Basic)  
EP 1087607 A3 020703

APPLICATION (CC, No, Date): EP 2000308257 000921;

PRIORITY (CC, No, Date): JP 99268201 990922; JP 99268203 990922

DESIGNATED STATES: DE; FR; GB; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/00; G03D-015/00; H04N-001/21

ABSTRACT WORD COUNT: 158

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200113	569
SPEC A	(English)	200113	10568
Total word count - document A			11137
Total word count - document B			0
Total word count - documents A + B			11137

**Print order receiving apparatus**

**...ABSTRACT A2**

A **print** order receiving apparatus, comprises a reader to read image data from a media in which the image data are stored; a producing section to produce information regarding a **print** order for an image based on the image data read by the reader and to confirm the **print** order by a confirming operation; a transmitting section to transmit the information regarding the print...

**...SPECIFICATION** accumulated in removable medium M, display 11 is made to display warning of "NO FURTHER **PRINT** ORDER MAY BE ACCEPTED DUE TO INSUFFICIENT STORAGE CAPACITY. REPLACE A STORAGE MEDIUM." and further receipt of **print** order thereafter is restricted. Due to this, it is possible to prevent troubles that there occurs a pause in receipt of **print** order. If a clerk replaces the removable medium M with a vacant one in response to the message mentioned above, CPU 16 erases the message of display 11 and **cancel** the restriction of order **receipt**, thus **receipt** of **print** order can be **resumed**.

Incidentally, the prescribed quantity means an amount less than capacity to store information for one time **print** order, but the invention is not limited to this. Further, LED flashing or oral warning...

**...the warning display or in addition to the warning display.**

On the other hand, in **print** order receiving apparatus 10, when button 11a is pressed, CPU 16 makes image forming apparatus 20 to transmit information for **prints**, by judging that **print** order has been confirmed. However, when internet lines are jammed, for example, there sometimes is...

16/3,K/8 (Item 8 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01245878

**Print control apparatus and storage medium**

**Druckersteuerungsgerat und Speichermedium**

**Dispositif de commande d'impression et support de stockage de donnees**

**PATENT ASSIGNEE:**

Casio Computer Co., Ltd., (249366), 6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo, (JP), (Applicant designated States: all)

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**LEGAL REPRESENTATIVE:**

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**PATENT** (CC, No, Kind, Date): EP 1077401 A2 010221 (Basic)

**APPLICATION** (CC, No, Date): EP 117737 000817;

**PRIORITY** (CC, No, Date): JP 99232858 990819

**DESIGNATED STATES:** AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

**EXTENDED DESIGNATED STATES:** AL; LT; LV; MK; RO; SI

**INTERNATIONAL PATENT CLASS:** G06F-003/12

**ABSTRACT WORD COUNT:** 185

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200108	955
SPEC A	(English)	200108	7079
Total word count - document A			8034
Total word count - document B			0
Total word count - documents A + B			8034

Print control apparatus and storage medium

...ABSTRACT A2

When a **print** processing is interrupted by a generation of an error, a host device recognizes an interrupted **print** request job and its non-**printed** page in **print** data transmitted to a **printer**, and switches from the **printer** having an error to another **printer** so as to start **print** from the non-**printed** page of the interrupted **print** request job. In order to achieve this, a **print** output status of **print** data transmitted to the **printer** is managed for each of the **print** request jobs, and then, based on the **print** output status acquired from the **printer**, a **print** output status of **print** data managed for each of the **print** request jobs is updated. When the **print** processing is interrupted by a generation of an error, based on the **print** output status of **print** data managed for each of the **print** request jobs, a **print** request job having an interrupted **print** output and an interrupted page are detected, and then, **print** data from the interrupted page of the **print** request job having an interrupted **print** output is again transmitted to another **printer** having no error status.

...SPECIFICATION managing a print output status of the transmitted print data for each of the plurality **print** request jobs; updating means for acquiring a print output status of the printer, and for...of printers is interrupted by a generation of an error; and restart means for again **transmitting** print data from the **interrupted** page of the print request job having the interrupted print output to a printer having...

...a print request job having an interrupted print output in the plurality of print jobs **transmitted** to the printer and an **interrupted** page. Further, even in the case of processing continuously plural print request jobs from a plurality of users, it is possible to continuously transmit page data of the plurality of **print** request jobs to the **printer** without waiting a **print** output completion every one **print** request job processing. Furthermore, in the case where a power off, reset and the like are carried out with respect to the **printer** when **print** is interrupted by an error and the like, it is possible to **restart print** by **transmitting** data from a correct page position of the interrupted **print** request job without generating a **print** page skip; therefore, availability and reliability can be improved in a print system.

According to...

...carries out an output control of print data output with respect to a plurality of **printers** connected to a network, the apparatus comprises transmission means for transmitting print data of plural...

...another printer which is connected to the network and has no error, and for again **transmitting** print data from the **interrupted** page of the **print** request job having the interrupted **print** output to the selected other **printer**.

Therefore, in the case of processing a continuously plural **print** request jobs from a plurality of users, it is possible to continuously transmit page data of the plurality of **print** request jobs to the **printer** without waiting a **print** output completion every one **print** request job processing. Further, in the case where **print** is interrupted by an error and the like, it is possible to **restart print** by **transmitting** data from a correct page position of the interrupted **print** request job to another **printer** having no error on a network without generating a print page skip; therefore, availability and...

...CLAIMS managing a print output status of the transmitted print data for each of the plurality **print** request jobs;  
updating means (S18) for acquiring a print output status of the printer, and...

...one of the plurality of printers is interrupted by a generation of an error; and

**restart** means (S19) for again **transmitting** print data from the **interrupted** page of the print request job having the interrupted print output to a printer having...

...control apparatus according to claim 1, characterized by further comprising clear means (S205) for clearing **print** data stored in a buffer of a **printer** whose **printing** operation is interrupted.

3. The **print** control apparatus according to claim 1, characterized in that said restart means selects another **printer** having no error, and again **transmits** the **print** data from the **interrupted** page of the **print** request job having the interrupted **print** output to the selected other **printer** having no error.
4. The **print** control apparatus according to claim 2, characterized in that said restart means selects another printer...

16/3,K/9 (Item 9 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01054385

Printing **system** and printing **apparatus**

Drucksystem und -gerat

Appareil et systeme d'impression

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

Dohi, Makoto, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 16 High Holborn, London WC1V 6BX, (GB)

PATENT (CC, No, Kind, Date): EP 930563 A2 990721 (Basic)  
EP 930563 A3 040630

APPLICATION (CC, No, Date): EP 99300175 990112;

PRIORITY (CC, No, Date): JP 9818280 980116

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT WORD COUNT: 135

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9929	1565
SPEC A	(English)	9929	13210
Total word count - document A			14775
Total word count - document B			0
Total word count - documents A + B			14775

Printing **system** and printing **apparatus**

...ABSTRACT A2

A **printing** system has a **printing** apparatus and a host apparatus.  
**Print** data or control data is transferred between the **printing** apparatus and the host apparatus in accordance with at least two transfer

methods. Upon detecting that a specific state has passed, the **printing** apparatus or the host apparatus predicts a change of the transfer method when (or immediately...  
...the data subsequently transferred. If it is found that the transfer method used in the **printing** apparatus or the host apparatus has been changed, the other apparatus accordingly changes the transfer...  
...SPECIFICATION into which data can be read/written; in this embodiment, a receiving buffer of the **printing** apparatus) within the **printing** apparatus to receive the data, control should be performed so that the data can be...  
...hamper correct operation. To avoid such a situation, the flow control is performed to appropriately **discontinue** and **restart** the data **transfer**

#### Concept of Credit

A description is given below of the concept of the credit used...

16/3,K/10 (Item 10 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01043027

Printing system and transmission device for transmitting print control program  
Druckersystem und Ubertragungsvorrichtung um Druckersteuerungsprogramm zu ubertragen  
Systeme d'impression et dispositif de transmission pour transmettre un programme de commande d'impression

#### PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (Applicant designated States: all)

#### INVENTOR:

Tsuchitori, Naoki, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)  
Mori, Junichi, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)

#### LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. High Holborn 2-5 Warwick Court, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 923024 A2 990616 (Basic)  
EP 923024 A3 000809

APPLICATION (CC, No, Date): EP 98310142 981210;

PRIORITY (CC, No, Date): JP 97361705 971211; JP 9834411 980217; JP 98243430 980828; JP 98317549 981109

DESIGNATED STATES: DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12; H04L-029/06

ABSTRACT WORD COUNT: 138

#### NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

#### FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9924	4693
SPEC A	(English)	9924	16300
Total word count - document A			20993
Total word count - document B			0
Total word count - documents A + B			20993

Printing system and transmission device for transmitting print control program

#### ...ABSTRACT A2

A **print** job can be identified without the **print** data of the **print**

job being analyzed, and **print** data for a **print** job that is selected, e.g., **print** data stored in an input buffer, can be invalidated. In addition, the cancellation of a **print** job can be designated in real time. To achieve the above object, a host computer and a **printer** are interconnected via a communication medium. The host computer comprises job packet generation means for adding a header to **print** data to form a packet for each **print** job that is generated. The **printer** comprises job detection and registration means for detecting the start and end of a **print** job in accordance with the contents of the header of a packet received from the host computer, and for registering the **print** job in a database.

...SPECIFICATION means, which is referred to as an input buffer, while assuming the presence of the **printer** in this invention), the amount of data to be received must be controlled so that...

...be performed correctly. To prevent such a problem, a flow control process for adjusting the **halting** and **resumption** of data **transmission** is performed.

The credit is issued by the packet reception side to the transmission side...

16/3,K/11 (Item 11 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01038693

**Interface control apparatus**

**Schnittstellensteuergerat**

**Appareil de commande d'interface**

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

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Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. High Holborn 2-5 Warwick Court, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 921473 A2 990609 (Basic)  
EP 921473 A3 000426

APPLICATION (CC, No, Date): EP 98309858 981202;

PRIORITY (CC, No, Date): JP 97335679 971205

DESIGNATED STATES: DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-013/38; G06F-003/12; G06F-013/12

ABSTRACT WORD COUNT: 67

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9923	612
SPEC A	(English)	9923	17049
Total word count - document A			17661
Total word count - document B			0
Total word count - documents A + B			17661

...ABSTRACT so that the destination of each data in the received data is switched between a **printing** -data buffer storage and a control-command buffer storage depending on whether or not the...

...SPECIFICATION A at the host apparatus side transfers the packet to the processing "a" at the **printing** apparatus side, the processing A cannot process the packet unless a parameter Credit is not...

...storage or the like, and which is hereinafter termed a reception buffer storage assuming the **printing** apparatus) possessed by ...to an amount exceeding the capacity of the reception buffer storage. The flow control adjusts **interruption** and **resumption** of data **transfer** in order to prevent such a situation.

Next, a description will be provided of the...

16/3,K/12 (Item 12 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01017280

IMAGE STORAGE AND RETRIEVAL FOR A PRINTER  
BILDSPEICHERUNG UND RUCKGEWINNUNG FUR EINEN DRUCKER  
STOCKAGE ET RECUPERATION D'IMAGES POUR IMPRIMANTE  
PATENT ASSIGNEE:

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designated states: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1010133 A1 000621 (Basic)

EP 1010133 B1 030326

WO 98057296 981217

APPLICATION (CC, No, Date): EP 97930008 970612; WO 97US10339 970612

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06K-015/02

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	200313	1748
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CLAIMS B	(German)	200313	1528
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CLAIMS B	(French)	200313	2038
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SPEC B	(English)	200313	7480
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Total word count - document A	0
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Total word count - document B	12794
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Total word count - documents A + B	12794
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IMAGE STORAGE AND RETRIEVAL FOR A PRINTER

...CLAIMS transfer means (44, 17) for transferring print image data defining a particular image from the **print** image memory both a) to the **print** engine for the **printing** of the particular image in response to the transferred **print** image data and also b) to the mass memory for storing the **print** image data defining the particular image in the mass memory in parallel with the transfer to the **print** engine of the **print** image data defining the particular image, characterised in that the mass memory is a hard...

...means (2) for monitoring the transfer of data to the hard disc drive and for **suspending** the **transfer** of data to the hard disc drive to prevent the transfer of data to the **print** engine from overrunning the transfer of data to the hard disc drive and for **resuming** the **transfer** of data to the hard disc drive.

2. The **printer** of claim 1 wherein the data transfer means (44, 17) further includes reading and overwriting means for reading the **print** image data from the **print** image memory (38) and for selectively overwriting the data stored in the **print** image memory as it is read from the **print** image memory (38), and means responsive to the monitoring means (2) for **suspending** the overwriting...

...intermediate memory to the compressor for compressing the print image data; (c) storing said compressed **print** image data in the rotatable

mass memory; (d) transferring the compressed print image data from...

...image data in the main memory for subsequent transfer to the print engine for the **printing** of an image corresponding to the particular image represented by the expanded **print** image data; (g) monitoring the transfer of data from the second intermediate memory to the **print** image data compressor and for **suspending** the **transfer** of data from the second intermediate memory to the **print** image data compressor to prevent the transfer of data to the **print** engine from overrunning the transfer of data to the **print** image compressor and for **resuming** the **transfer** of data to the **print** image compressor.

10. The **printer** of claim 9 wherein the data transfer means (44, 17) further includes reading and overwriting means for reading the **print** image data from the **print** image memory (38) and for selectively overwriting the data stored in the **print** image memory as it is read from the **print** image memory, and means responsive to the monitoring means (2) for suspending the overwriting of...

16/3,K/13 (Item 13 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00942402

Printer detecting data precisely in response to change in data transmission speed  
Drucker, der Daten genau in Entsprechung zur Änderung in der Datenübertragungsgeschwindigkeit erkennt  
Imprimante detectant des donnees precisement en reponse a des changements dans la vitesse de transmission de donnees

PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730001), 4-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 160-0811, (JP), (Proprietor designated states: all)

INVENTOR:

Sotokawa, Hiroshi, c/o Seiko Epson Corporation, 3-5, Owa 3-chome, Suwa-shi, Nagano, (JP)

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Sturt, Clifford Mark et al (50502), Miller Sturt Kenyon 9 John Street, London WC1N 2ES, (GB)

PATENT (CC, No, Kind, Date): EP 855641 A1 980729 (Basic)  
EP 855641 B1 031126

APPLICATION (CC, No, Date): EP 98300567 980127;

PRIORITY (CC, No, Date): JP 9712914 970127; JP 9712915 970127; JP 9712916 970127

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT WORD COUNT: 205

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199831	1557
CLAIMS B	(English)	200348	441
CLAIMS B	(German)	200348	412
CLAIMS B	(French)	200348	523
SPEC A	(English)	199831	6288
SPEC B	(English)	200348	6359
Total word count - document A			7846
Total word count - document B			7735
Total word count - documents A + B			15581

Printer detecting data precisely in response to change in data transmission speed

...ABSTRACT A1

A **printer** , which is connected to a host computer, comprises a



16/3,K/14 (Item 14 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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00939757

Printing system

Drucksystem

Système d'impression

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,  
Tokyo, (JP), (Proprietor designated states: all)

INVENTOR:

Nakatsuma, Takuji, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,  
Ohta-ku, Tokyo, (JP)  
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Wanda, Koichiro, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,  
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Ohta-ku, Tokyo, (JP)  
Kakehashi, Takuya, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome,  
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LEGAL REPRESENTATIVE:

Pellmann, Hans-Bernd, Dipl.-Ing. et al (9227), Patentanwaltsburo  
Tiedtke-Buhling-Kinne & Partner Bavariaring 4-6, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 854415 A2 980722 (Basic)

EP 854415 A3 000524

EP 854415 B1 040519

APPLICATION (CC, No, Date): EP 97122908 971224;

PRIORITY (CC, No, Date): JP 96350179 961227; JP 96349634 961227; JP  
96350208 961227; JP 97268663 971001; JP 97277158 971009; JP 97305739  
971107

DESIGNATED STATES: DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/12

ABSTRACT WORD COUNT: 139

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199830	2101
CLAIMS B	(English)	200421	2171
CLAIMS B	(German)	200421	1627
CLAIMS B	(French)	200421	2463
SPEC A	(English)	199830	19594
SPEC B	(English)	200421	19651
Total word count - document A			21698
Total word count - document B			25912
Total word count - documents A + B			47610

Printing system

...ABSTRACT A2

A client transmits only job information of **print** data to a server, the server manages a **print** order in accordance with the job information, and if printable, the client transmits the **print** data directly to a **printer**. After the **print** is completed, the **printer** notifies the server of a **print** completion, and upon reception of this **print** completion notice, the server instructs the client to delete the **print** data. In a **print** system on a network configured as above, the network traffic is not increased, a large...

in accordance with job information of **print** data transmitted from an external apparatus (702); and outputting means for outputting output enabled information...

...graphics data of a job represented by the job information can be output to a **printer** (701), wherein the job information includes at least information which designates a **printer** and is necessary for the execution of said sequential order control means (712/702), and...

16/3,K/18 (Item 18 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00682140

Detection of the condition of a printer

Feststellung des Betriebszustands eines Druckers

Detection de l'etat de fonctionnement d'une imprimante

PATENT ASSIGNEE:

SEIKO EPSON CORPORATION, (730004), 4-1, Nishishinjuku 2-chome,  
Shinjuku-ku, Tokyo 163-0811, (JP), (Proprietor designated states: all)

INVENTOR:

Akiyama, Takaaki, c/o Seiko Epson Corp., 3-5, Owa 3-chome, Suwa-shi,  
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Koakutsu, Naohiko, c/o Seiko Epson Corp., 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken 392, (JP)  
Teradaira, Mitsuaki, c/o Seiko Epson Corp., 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken 392, (JP)  
Miyasaka, Masayo, c/o Seiko Epson Corp., 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken 392, (JP)  
Hyonaga, Takuya, c/o Seiko Epson Corp., 3-5, Owa 3-chome, Suwa-shi,  
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LEGAL REPRESENTATIVE:

Hoffmann, Eckart, Dipl.-Ing. (5571), Patentanwalt, Bahnhofstrasse 103,  
82166 Grafelfing, (DE)

PATENT (CC, No, Kind, Date): EP 652533 A2 950510 (Basic)  
EP 652533 A3 951102  
EP 652533 B1 020213

APPLICATION (CC, No, Date): EP 94117601 941108;

PRIORITY (CC, No, Date): JP 93278637 931108; JP 93278638 931108; JP  
93278639 931108

DESIGNATED STATES: CH; DE; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: G06K-015/00

ABSTRACT WORD COUNT: 116

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1534
CLAIMS B	(English)	200207	1948
CLAIMS B	(German)	200207	1515
CLAIMS B	(French)	200207	2313
SPEC A	(English)	EPAB95	8070
SPEC B	(English)	200207	8142
Total word count - document A			9606
Total word count - document B			13918
Total word count - documents A + B			23524

Detection of the condition of a printer

...ABSTRACT A2

A **printing** apparatus has, in addition to a normal command interpreter (66), a real-time command interpreter...

...is received from a host device. This real-time command interpreter functions even when the **printing** apparatus is off-line, thereby

enabling the status of the **printing** apparatus to be known even when the **printing** apparatus is not operating. Thus, the host device can be notified of the cause for non-operation thereby achieving a high throughput rate **printing**. The user can cancel a cut-sheet paper insertion wait-state at any time. Why...

...SPECIFICATION always destroyed after the printing apparatus recovers from the error. When the same data is **printed** after error recovery as before the error occurred, a special character is **printed** at the beginning of the line to indicate that the data in that line has been **printed** twice. A mode for error recovery after destroying the data already received is therefore necessary...

...operation.

By means of the invention thus described, the host computer can determine why the **printing** apparatus has gone off-line while the **printing** apparatus is off-line.

Furthermore, by providing a data receiving means and real-time command process means in the **receive interrupt** process, commands can be interpreted and recovery from a cut-sheet form insertion wait-state...

...recoverable; if it is recoverable, the user can be notified where the error occurred, and **printing** can be **resumed** without destroying the data already **received** once the cause of the error is corrected.

When recovering from an error, it is also possible to choose to resume **printing** after destroying the data already transmitted to the **printing** apparatus, or to resume printing from the line at which the error occurred.

As a...

...SPECIFICATION always destroyed after the printing apparatus recovers from the error. When the same data is **printed** after error recovery as before the error occurred, a special character is **printed** at the beginning of the line to indicate that the data in that line has been **printed** twice. A mode for error recovery after destroying the data already received is therefore necessary...

...operation.

By means of the invention thus described, the host computer can determine why the **printing** apparatus has gone off-line while the **printing** apparatus is off-line.

Furthermore, by providing a data receiving means and real-time command process means in the **receive interrupt** process, commands can be interpreted and recovery from a cut-sheet form insertion wait-state...

...recoverable; if it is recoverable, the user can be notified where the error occurred, and **printing** can be **resumed** without destroying the data already **received** once the cause of the error is corrected.

When recovering from an error, it is also possible to choose to resume **printing** after destroying the data already transmitted to the **printing** apparatus, or to resume printing from the line at which the error occurred.

As a...

16/3,K/19 (Item 19 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00551277

Bi-directional parallel printer interface  
Bidirektionale parallele Drucker-Schnittstelle  
Interface parallele bidirectionnel pour imprimante  
PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 506594 A2 920930 (Basic)  
EP 506594 A3 931124  
EP 506594 B1 990506

APPLICATION (CC, No, Date): EP 92480031 920226;

PRIORITY (CC, No, Date): US 678929 910326

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-003/12; G06F-013/42;

ABSTRACT WORD COUNT: 133

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9918	342
CLAIMS B	(German)	9918	329
CLAIMS B	(French)	9918	402
SPEC B	(English)	9918	6567
Total word count - document A			0
Total word count - document B			7640
Total word count - documents A + B			7640

**Bi-directional parallel printer interface**

...ABSTRACT A2

A parallel interface connects a data processor and a **printer** so that each may transmit information to the other or receive information from the other...

...signals are transmitted over the same eight information lines between the data processor and the **printer** with a predetermined signal being sent over another line from the data processor to the **printer** prior to transmission over the eight lines to identify whether the transmitted information is data or status signals. The **printer** sends status signals to the data processor over the same eight information lines after sending ...

16/3,K/21 (Item 21 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00467712

Printing apparatus

Druckvorrichtung

Dispositif d'imprimante

PATENT ASSIGNEE:

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Azuchi-Machi, Chuo-ku, Osaka, (JP), (applicant designated states:  
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INVENTOR:

Iwasaki, Yoichi, c/o Minolta Camera K.K., Osaka Kokusai Building, 2-30,  
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- Nishi, Akihiro, c/o Minolta Camera K.K., Osaka Kokusai Building, 2-30,  
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Yoshida, Satoshi, c/o Minolta Camera K.K., Osaka Kokusai Building, 2-30,  
Azuchi-machi, Higashi-ku, Osaka-shi, Osaka, (JP)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 473017 A2 920304 (Basic)  
EP 473017 A3 930310  
EP 473017 B1 970528

APPLICATION (CC, No, Date): EP 91113679 910814;

PRIORITY (CC, No, Date): JP 90231193 900831; JP 90231195 900831

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06K-015/00;

ABSTRACT WORD COUNT: 47

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	514
CLAIMS B	(English)	EPAB97	555
CLAIMS B	(German)	EPAB97	478
CLAIMS B	(French)	EPAB97	585
SPEC A	(English)	EPABF1	7357
SPEC B	(English)	EPAB97	7118
Total word count - document A			7871
Total word count - document B			8736
Total word count - documents A + B			16607

Printing apparatus

...ABSTRACT A2

A **printing** apparatus connectable to a plurality of external device, and which is capable of receiving **print** requests from other external device while **printing print** data transmitted from a single external device in accordance with a **print** request received therefrom. (see image in original document)

...SPECIFICATION from a preemption signal generator while a RAM is accessed by the data processor by **interrupting** its sequential generation of **transfer** control signals during the interval of the preemption signal and to respond to the termination of the preemption signal by **resuming** said sequential generation of **transfer** control signals at the point of interruption.

SUMMARY OF THE INVENTION

A main object of the present invention is to provide a **printing** apparatus connectable to a plurality of external devices, and which is capable of receiving **print** requests from other external devices while **printing print** data transmitted from a single external device in accordance with a **print** request received therefrom.

A further object of the present invention is to provide a **printing** apparatus which, when connected to a first and second host, gives priority to printing print...

16/3,K/22 (Item 22 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00437002

Image communicating apparatus.

Bildubertragungsgerat.

Dispositif de communication d'images.

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,  
Tokyo, (JP), (applicant designated states: DE;ES;FR;GB;IT)

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PATENT (CC, No, Kind, Date): EP 443247 A2 910828 (Basic)  
EP 443247 A3 920527  
EP 443247 B1 951115

APPLICATION (CC, No, Date): EP 90313031 901130;

PRIORITY (CC, No, Date): JP 9041058 900223

DESIGNATED STATES: DE; ES; FR; GB; IT

INTERNATIONAL PATENT CLASS: H04N-001/32; H04N-001/23;

ABSTRACT WORD COUNT: 88

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB95	968
CLAIMS B	(German)	EPAB95	804
CLAIMS B	(French)	EPAB95	1165
SPEC B	(English)	EPAB95	4518
Total word count - document A			0
Total word count - document B			7455
Total word count - documents A + B			7455

...ABSTRACT A2

There is disclosed a facsimile apparatus equipped with an ink jet  
**printing** unit, capable of reducing the number of ink discharge recovery  
operations of the ink jet...

...memory, with inspection for errors in transmission in an error  
correction mode, and is collectively **printed** after a predetermined  
amount of image data is stored. The recording head is uncapped by...

...SPECIFICATION error detection for each received frame, and, upon  
detection of an error frame, causes the **transmitting** unit to  
immediately **terminate** the **transmission** of image data and requests the  
resending of said error frame. The **transmitting** unit **restarts** image  
data **transmission** from the frame in which the error occurred.  
Data of a frame consists of a...

...block is composed of 0 - 255 frames.

Example of control sequence

Fig. 5A shows the **printing** sequence in case an ECM buffer of 64  
Kbytes is employed as the image memory...

16/3,K/23 (Item 23 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00429286

Continuous-form electrophotographic printers .

Elektrofotografischer Drucker für einen endlosen Aufzeichnungsträger.

Imprimantes electrophotographiques pour support d'impression en forme de  
bande sans fin.

PATENT ASSIGNEE:

OUTPUT TECHNOLOGY CORPORATION, (1293680), East 9922 Montgomery, Spokane,  
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INVENTOR:

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LEGAL REPRESENTATIVE:

Hoijtink, Reinoud et al (20151), OCTROOIBUREAU ARNOLD & SIEDSMA  
Sweelinckplein 1, NL-2517 GK Den Haag, (NL)

PATENT (CC, No, Kind, Date): EP 460303 A2 911211 (Basic)  
EP 460303 A3 920826

APPLICATION (CC, No, Date): EP 90202919 901102;  
 PRIORITY (CC, No, Date): US 535112 900608  
 DESIGNATED STATES: DE; FR; GB; IT; NL  
 INTERNATIONAL PATENT CLASS: G03G-015/20; G03G-015/00;  
 ABSTRACT WORD COUNT: 136

LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	2050
SPEC A	(English)	EPABF1	2869
Total word count - document A			4919
Total word count - document B			0
Total word count - documents A + B			4919

# **Continuous-form electrophotographic printers .**

## ...ABSTRACT A2

A preferred embodiment of this continuous-form electrophotographic **printer** as illustrated in the drawings having an image transfer device 38 positioned at the image...

...an image fixing station 32 for fixing the image onto the individual sheet 14. The **printer** 10 includes a control means 76 for moving the continuous sheet forward when a **stop** signal is **received** to position a leading edge of a sheet at the image fixing station 32. When a **restart** signal is **received** , the control system initiates the continuous-form feeding means 38 to move the continuous-form...

...SPECIFICATION is concerned with the stopping and restarting of the movement of the continuous-form without **print** damage in which each of the sheets 14 of the form 12 are of a...

...the individual sheet is defined by distance B as illustrated in the drawings. Traditionally a **stop** signal is **received** by the **printer** at the completion of **printing** of a desired number of documents or when the memory of the control means 76...

...continuous-form 12 with a leading edge of a sheet being aligned at the image **transfer** station 30 so that, upon **restarting** , registration of the continuous sheet with respect to the drum 40 is maintained. However, when...

16/3,K/24 (Item 24 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00377849

Printer having single connector for parallel and serial interfaces.  
 Drucker mit einem einzigen Verbindungsstecker für parallele und serielle Schnittstellen.  
 Imprimante ayant un connecteur unique pour les interfaces parallèles et sèrielles.

## PATENT ASSIGNEE:

LEXMARK INTERNATIONAL, INC., (1367862), 55 Railroad Avenue, Greenwich, Connecticut 06830, (US), (applicant designated states: DE;FR;GB)

## INVENTOR:

Kroeger, Wilbert Louis, 3348 Lyon Dr., Lexington Kentucky 40513, (US)  
 Ripley, John Russel, 5904 Sierra Leon, Austin Texas 78759, (US)  
 Wood, Bruce Richard, 9817 Brandywine Circle, Austin Texas 78750, (US)

## LEGAL REPRESENTATIVE:

Tomlinson, Kerry John et al (36771), Frank B. Dehn & Co. European Patent Attorneys Imperial House 15-19 Kingsway, London WC2B 6UZ, (GB)

PATENT (CC, No, Kind, Date): EP 332554 A2 890913 (Basic)  
 EP 332554 A3 900808  
 EP 332554 B1 940608

• APPLICATION (CC, No, Date): EP 89480002 890103;  
PRIORITY (CC, No, Date): US 164925 880307  
DESIGNATED STATES: DE; FR; GB  
INTERNATIONAL PATENT CLASS: G06F-003/12;  
ABSTRACT WORD COUNT: 110

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF1	170
CLAIMS B	(English)	EPBBF1	336
CLAIMS B	(German)	EPBBF1	358
CLAIMS B	(French)	EPBBF1	374
SPEC A	(English)	EPBBF1	4224
SPEC B	(English)	EPBBF1	4501
Total word count - document A			4394
Total word count - document B			5569
Total word count - documents A + B			9963

Printer having single connector for parallel and serial interfaces.

...ABSTRACT one of a limited number of contacts, achieves both parallel and serial interfaces between a **printer** 3 and a computer 11 using a single connector 1 in the **printer** 3. The connector has individual contacts for the following signals for parallel communications: strobe, data signals, acknowledge, busy, **printer** out of paper, **printer** selected, paper feed one line after **printing**, logic ground, chassis ground, initialize the **printer** controller, and **printer** error; and has individual contacts for the following signals for serial communications: transmit data, request  
...

...SPECIFICATION DC1 and DC3 control codes to pace the data flow from the host to the **printer**. The XOFF code is sent by the **printer** to the host to request that the host system **stop transmitting** data. The **printer** can take 128 more bytes after XOFF, but if the host sends more than 128  
...

...overflow error is generated. The XOFF will be issued when the following conditions occur:  
- The **printer**'s receive buffer is almost full. (When it goes from 129 to 128 bytes available).  
- The **printer** detects an error condition and an Error reporting mode is not ON.  
- The **printer** is in an alarm condition intended to prevent host buffer overflow.  
The XON code is sent by the **printer** to the host to request that the host start/ **resume transmitting** data. It will be issued when the following conditions occur:  
- After POR, if Data Set...

...SPECIFICATION DC1 and DC3 control codes to pace the data flow from the host to the **printer**. The XOFF code is sent by the **printer** to the host to request that the host system **stop transmitting** data. The **printer** can take 128 more bytes after XOFF, but if the host sends more than 128  
...

...overflow error is generated. The XOFF will be issued when the following conditions occur:  
- The **printer**'s receive buffer is almost full. (When it goes from 129 to 128 bytes available).  
- The **printer** detects an error condition and an Error reporting mode is not ON.  
- The **printer** is in an alarm condition intended to prevent host buffer overflow.  
The XON code is sent by the **printer** to the host to request that the host start/ **resume transmitting** data. It will be issued when the following conditions occur:  
- After POR, if Data Set...



16/3,K/25 (Item 25 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00364517

Page printer .

Seitendrucker.

Imprimante de page.

PATENT ASSIGNEE:

Oki Electric Industry Company, Limited, (225690), 7-12, Toranomom 1-chome  
Minato-ku, Tokyo 105, (JP), (applicant designated states: DE;FR;GB)

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Minato-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

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Quality Court Chancery Lane, London, WC2A 1HZ, (GB)

PATENT (CC, No, Kind, Date): EP 340972 A2 891108 (Basic)  
EP 340972 A3 920513

APPLICATION (CC, No, Date): EP 89304245 890427;

PRIORITY (CC, No, Date): JP 88105535 880430

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06K-015/00; G06F-013/34;

ABSTRACT WORD COUNT: 139

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	700
SPEC A	(English)	EPABF1	5088
Total word count - document A			5788
Total word count - document B			0
Total word count - documents A + B			5788

Page printer .

...ABSTRACT A2

A page **printer** with an internal CPU (15), interrupt controller (9),  
and direct memory access controller (DMAC) (18...

...urgent interrupt service is required. Burst-mode DMA improves the speed  
of operation of the **printer**. (see image in original document)

...SPECIFICATION printer to be performed in burst mode, without disabling  
operations by the CPU.

A page **printer** according to this invention comprises an interface  
circuit for receiving data from external apparatus and...

...signals, a bus for transferring data among the interface and other  
circuit blocks in the **printer**, a character pattern memory for storing  
data such as character patterns, a frame buffer memory...

...control circuit for receiving information from the read-out circuit and  
generating control signals, a **printing** mechanism for **printing**  
according to these control signals, a CPU for **receiving interrupt**  
request signals, processing data, and generating signals such as a DMA  
request signal and a...

...DMA request signal, a DMA stopping circuit, disposed in the BitBlT  
circuit, for stopping and **restarting** DMA **transfers** in response to a  
DMA **stop** signal and the DMA restart signal, an interrupt controller for  
relaying interrupt request signals to...

...CPU.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a block diagram of a page **printer** according to this  
invention.

Fig. 2 is a state transition diagram of a DMA controller used in the

16/3,K/26 (Item 26 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00201336

Facsimile apparatus.

Faksimile-Gerat.

Appareil de fac-simile.

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 201772 A1 861120 (Basic)

EP 201772 B1 910220

APPLICATION (CC, No, Date): EP 86105628 860423;

PRIORITY (CC, No, Date): JP 8587784 850424; JP 8587785 850424; JP 8587786

850424; JP 8587787 850424

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: H04N-001/00

ABSTRACT WORD COUNT: 63

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	378
CLAIMS B	(German)	EPBBF1	324
CLAIMS B	(French)	EPBBF1	403
SPEC B	(English)	EPBBF1	4947
Total word count - document A			0
Total word count - document B			6052
Total word count - documents A + B			6052

...ABSTRACT for storing the decoded data, a CPU (50) for controlling  
send/receive operation, and a **printer** (200) for **printing** received  
data. High-speed communication can be performed using a small-capacity  
memory and a...

...SPECIFICATION the end of the line of the memory area B (U19). When the  
pseudo EOP' is generated, the memory read is temporarily interrupted  
and the printer 200 is stopped. The printer...

...The memory 10 subsequently continues to store the reception data. When  
the current distance reaches the safety distance L or the EOP is  
detected, the **printer** is started again. More specifically, the  
reception image is divided and output, thereby preventing the printed  
data from being read out and printed again. It should be noted that  
another paper sheet is used for printing after such interruption.

When the immediate memory area B receives the reception signals or  
reader output signals, the number of which is the same as the memory  
capacity, the write address jumps to the jump address JA. When  
additional reception signals are then received, writing is restarted  
from the start address SA. The code is then overwritten in the immediate  
memory area...

File 347:JAPIO Nov 1976-2004/May(Updated 040903)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200460  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	879516	PRINT???
S2	5118850	DOWNLOAD??? OR RECEPTION? ? OR RECEIPT OR RECEIV??? OR RET- RIEV??? OR INSTAL? OR TRANSMISSION? ? OR TRANSMIT? OR DELIVERY OR TRANSFER? OR DISTRIBUT?
S3	96715	S2(5N) (INTERRUPT? OR DISRUPT? OR DELAY??? OR POSTPON??? OR (BREAK??? OR CUT????) ()OFF OR RESCHEDUL? OR RE()SCHEDUL??? OR DEFER? OR SUSPEND? OR STOP???)
S4	22090	S2(5N) (DISCONTIN? OR TERMINAT? OR CANCEL? OR ABORT??? OR F- REEZ??? OR FROZEN OR HALT???)
S5	86697	S2(5N) (RESUM??? OR RESUMPTION OR RECOMMENC? OR RESTART??? - OR RE()START??? OR CONTINU???? OR COMMENC??? OR COMPLET? OR F- INISH??? OR CONCLUD??? OR RETURN???)
S6	483	S1 AND S3:S4 AND S5
S7	298	S6 AND PRINTER? ?
S8	247	S1/TI AND S6
S9	194	S8 AND S7
S10	3295	S2(5N) (RESUM??? OR RESUMPTION OR RECOMMENC? OR RESTART??? - OR RE()START???)
S11	108	S1 AND S3:S4 AND S10
S12	4	S11 AND AC=US/PR
S13	3	S12 AND AY=(1970:2001)/PR
S14	87	S11 AND PY=1970:2001
S15	88	S13:S14
S16	69	PRINTER? ? AND S15
S17	45	S16 AND PRINT??*/TI
S18	24	S16 NOT S17
S19	51	S15 AND PRINT??*/TI
S20	6	S19 NOT S16
S21	137	S9 NOT S11
S22	4	S21 AND AC=US/PR
S23	4	S22 AND AY=(1970:2001)/PR
S24	121	S21 AND PY=1970:2001
S25	121	S23:S24
S26	45	S25 AND IC=G06F
S27	76	S25 NOT S26

17/5/6 (Item 6 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05424510 \*\*Image available\*\*  
DATA TRANSMISSION APPARATUS, DATA PROCESSOR, **PRINTER** AND DATA  
TRANSMISSION METHOD

PUB. NO.: 09-039310 [JP 9039310 A]  
PUBLISHED: February 10, 1997 ( 19970210)  
INVENTOR(s): IKENOUE YOSHIKAZU  
APPLICANT(s): MINOLTA CO LTD [000607] (A Japanese Company or Corporation),  
JP (Japan)  
APPL. NO.: 07-198787 [JP 95198787]  
FILED: August 03, 1995 (19950803)  
INTL CLASS: [6] B41J-005/30; G06F-003/12  
JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines); 44.7  
(COMMUNICATION -- Facsimile); 45.3 (INFORMATION PROCESSING --  
Input Output Units)

#### ABSTRACT

PROBLEM TO BE SOLVED: To receive the **printing** demands from a plurality of users without requiring large memory capacity by **interrupting** the **transmission** of a file at a point of time when a part of the file is transmitted to a **printer** by each data processor.

SOLUTION: In a data processor 3, a **printer** driver 32 delivers a part of a document file and the discrimination data of the file to a network driver 33. A **printer** 1 receives a part of the file and the discrimination data of the file and a file manager 13 allows both of them to correspond to each other to store the same in a memory 12. A user interface 14 forms a file list on the basis of the discrimination data and addition data to display the same on a display 15. A user designates the file starting **printing** and the user interface 14 issues a command to the file manager 13 so as to **print** the designated file. The file manager 13 designates the **resumption** of the **transmission** of the residual file on the **printer** driver 32 and reads the file from the memory 12 to **print** the same.

17/5/7 (Item 7 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05195649 \*\*Image available\*\*  
**PRINTER**

PUB. NO.: 08-151149 [JP 8151149 A]  
PUBLISHED: June 11, 1996 ( 19960611)  
INVENTOR(s): SUGIMOTO KAZUAKI  
APPLICANT(s): TEC CORP [000356] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-293593 [JP 94293593]  
FILED: November 29, 1994 (19941129)  
INTL CLASS: [6] B65H-023/16; B41J-015/04; B41J-015/16  
JAPIO CLASS: 22.2 (MACHINERY -- Mechanism & Transmission); 29.4 (PRECISION  
INSTRUMENTS -- Business Machines)

#### ABSTRACT

PURPOSE: To prevent slack from being generated by delivering a paper sheet from a paper roll body with a light load, and preventing the delivery of an excessive paper sheet due to inertia at the time of stopping the delivery operation.

CONSTITUTION: A damper mechanism 27 energized so as to touch a paper 4 between a paper roll body 8 and a setting head for absorbing slack generated in the paper 4 is swingably provided and at the same time a bearing roller 24 fixed on the shaft 21 of the paper roll body 8, a driven rotary roller 25 brought into contact with the bearing roller 24 and

rotatably supported and a stopper roller 29 energized in the rotational biting direction and at the same time engaged or disengaged by interlocking with the swing of the damper mechanism 27 are provided between the rollers 24, 25. At the time of stopping the **delivery** operation, the **stopper** roller 29 is made to bite in between the rollers 24, 25 by interlocking with the operation of the damper mechanism 27 to operate braking force but at the time of **re**-starting the **delivery** operation, the **stopper** roller 29 is detached to bring it into the state of a light load.

17/5/8 (Item 8 from file: 347)

DIALOG(R)File 347:JAPIO

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05157461 \*\*Image available\*\*

**PRINTER**

PUB. NO.: 08-112961 [JP 8112961 A]

PUBLISHED: May 07, 1996 ( 19960507)

INVENTOR(s): TSUKADA NOBUYUKI  
TANAKA SOHEI  
WATAYA MASAFUMI  
KAMURAGI YOSHIKI  
SUZUKI NORIYUKI  
UEMURA HIROSHI

APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 06-275835 [JP 94275835]

FILED: October 14, 1994 (19941014)

INTL CLASS: [6] B41J-029/38; B41J-003/44; B41J-005/30; G06F-003/12

JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines); 44.7  
(COMMUNICATION -- Facsimile); 45.3 (INFORMATION PROCESSING --  
Input Output Units)

**ABSTRACT**

PURPOSE: To carry out the **printing** without requiring many data holding units by providing means for deciding the priority order of a plurality of interfaces and executing the **printing** process according to the decided result in a **printer** which can **print** the data of the plurality of the interfaces.

CONSTITUTION: An I/F (interface) switching unit 104 is initially switched to a bidirectional I/F transceiver 103. When a FAX receiver 102 receives a signal during **printing**, a FAX **reception** sensor 109 requests an **interrupting** operation, and a **transmission** data processor 105 **transfers** a data **transfer** **interruption** request and a page counted value from the transceiver 103. In the case of the midway of **printing**, the **printing** of the sheet to the last is conducted, then an I/F switching unit 104 is switched to the receiver 102, and the FAX data is received and **printed**. Then, again the unit 104 is switched to the transceiver 103, and the data **transfer** is **restarted** from the head of the page in which the **printing** is interrupted.

17/5/9 (Item 9 from file: 347)

DIALOG(R)File 347:JAPIO

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05116842 \*\*Image available\*\*

**PRINTING CONTROL METHOD**

PUB. NO.: 08-072342 [JP 8072342 A]

PUBLISHED: March 19, 1996 ( 19960319)

INVENTOR(s): MABUCHI TERUCHIKA

APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 06-209874 [JP 94209874]

FILED: September 02, 1994 (19940902)

INTL CLASS: [6] B41J-011/42; B41J-013/00; B65H-043/00; G06F-003/12  
JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines); 22.2  
(MACHINERY -- Mechanism & Transmission); 45.3 (INFORMATION  
PROCESSING -- Input Output Units)

#### ABSTRACT

PURPOSE: To obtain a **printing** control method effectively performing the recovery of various states in a **printing** process by dividing a **printing** processing process into a process before the taking-in of paper, a process during the transmission of **printing** data and a process during the discharge of paper corresponding to an interruption state.

CONSTITUTION: A **printing** processing process is divided into three processes, that is, a process before the taking-in of paper, a process during the transmission of **printing** data and a process during the discharge of paper corresponding to an interruption state. Only when there is no paper at all of suction ports and no paper is present in a **printer**, the absence of paper is judged and, when there is paper at other suction port, the suction port is altered to perform **printing**. When paper is present in the **printer**, the check of processing during the discharge of paper is performed and, at a point of time when paper is absent at all of the suction ports and paper is absent in the **printer**, the absence of paper is judged. When a paper absent state is released, **printing** data **transmission** completion **interruption** is confirmed to **resume printing** and, when no **printing** data **transmission** completion **interruption** is generated, **printing** is **resumed** after the **printing** data **transmission** completion **interruption** is generated.

17/5/10 (Item 10 from file: 347)  
DIALOG(R) File 347:JAPIO  
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03988380 \*\*Image available\*\*  
**PRINTER**

PUB. NO.: 04-353480 [JP 4353480 A]  
PUBLISHED: December 08, 1992 ( 19921208)  
INVENTOR(s): SUDO NAGAKATSU  
APPLICANT(s): OKI ELECTRIC IND CO LTD [000029] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 03-129102 [JP 91129102]  
FILED: May 31, 1991 (19910531)  
INTL CLASS: [5] B41J-005/30; B41J-021/00; G06F-003/12  
JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines); 45.3  
(INFORMATION PROCESSING -- Input Output Units)  
JAPIO KEYWORD: R011 (LIQUID CRYSTALS); R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors)  
JOURNAL: Section: M, Section No. 1403, Vol. 17, No. 217, Pg. 137,  
April 28, 1993 (19930428)

#### ABSTRACT

PURPOSE: To perform a normal **print** without placing a memory board having a large capacity when **print** data of one page cannot be stored in a page buffer.

CONSTITUTION: When a page buffer 9 becomes a full state during receiving, a **reception** of **print** data is **stopped**, and a proposal of an extension of a memory is displayed. When a memory card 18 containing a RAM is inserted, **reception** of **print** data is **restarted**, and residual **print** data is stored in the card 18. In this case, a memory space of a **printer** 31 is accessed at a set period, and a start address, an end address of an increased memory space by the card 18 and a storage capacity are detected. The set period for accessing the memory space is set with number of bits of a memory chip having a smallest memory capacity of memory chips to be used for the card 18 as a reference or raised to M-th (integer) power of 2.

17/5/36 (Item 18 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011790016 \*\*Image available\*\*  
WPI Acc No: 1998-206926/ 199818  
Related WPI Acc No: 1997-558475  
XRPX Acc No: N98-164382

**Portable data buffer apparatus for interfacing between computer and printer - has manually-actuated reception re - starting device connected to receiver for re - starting interrupted reception in accordance with second control procedure of apparatus**

Patent Assignee: CANON KK (CANO )  
Inventor: ONSSEN T; SATOH M  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5729708	A	19980317	US 90622011	A	19901204	199818 B
			US 94218831	A	19940328	

Priority Applications (No Type Date): JP 89315070 A 19891204; JP 89315065 A 19891204; JP 89315066 A 19891204; JP 89315067 A 19891204; JP 89315068 A 19891204; JP 89315069 A 19891204

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5729708	A	79	G06F-003/00	Cont of application US 90622011

Abstract (Basic): US 5729708 A

he appts includes a receiver for receiving data transmitted from a separate data transmitter. A transmitter transmits data to a separate data receiver. An accumulator is used for accumulating data, while a device is provided for, in response to a manual instruction operation by an operator, inhibiting transmission of data by the transmitter while enabling reception of data by the receiver. A device is used for, in response to a different manual instruction operation by an operator, inhibiting reception of data by the receiver while enabling transmission of data by the transmitter.

Further the apparatus also includes a manually-actuated **reception interrupter** connected to the **receiver** for **interrupting** a **reception** of data in accordance with a first control procedure of the apparatus. A manually-actuated **reception re- starting** device is connected to the **receiver** for **re - starting** the **interrupted reception** in accordance with a second control procedure of the apparatus.

ADVANTAGE - Capable of handling data from data transmitter in block units and allows user to identify data block currently in **reception** .  
Easy **interrupting** and **restarting** data **reception** .

Dwg.2/63

Title Terms: PORTABLE; DATA; BUFFER; APPARATUS; INTERFACE; COMPUTER; **PRINT** ; MANUAL; ACTUATE; RECEPTION; START; DEVICE; CONNECT; RECEIVE; START; INTERRUPT; RECEPTION; ACCORD; SECOND; CONTROL; PROCEDURE; APPARATUS  
Derwent Class: T01; T04  
International Patent Class (Main): G06F-003/00  
International Patent Class (Additional): G06F-013/00  
File Segment: EPI

17/5/37 (Item 19 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

011767458 \*\*Image available\*\*  
WPI Acc No: 1998-184368/ 199817  
XRPX Acc No: N98-146212

**Information processor e.g. PC with printer - receives information state of image forming unit along newly generated communication channel, based on which interrupted image transmission process is restarted**

Patent Assignee: FUJI XEROX CO LTD (XERF )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10040025	A	19980213	JP 96197155	A	19960726	199817 B

Priority Applications (No Type Date): JP 96197155 A 19960726

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10040025	A	16	G06F-003/12	

Abstract (Basic): JP 10040025 A

The processor (1) has a control unit (10), by which the logical communication channel is connected among multiple image forming units. The image data is transmitted through this channel and the data transmission error along this channel is detected, by an error monitor (101). When the error signal is detected, the **transmission** process is **interrupted** and a new communication channel link, is established by a second control unit (93).

The channel state information of the image forming unit is continuously received by a transceiver (103). Based on the received state information of the image forming unit, the first communication channel is re-linked and the **interrupted** data **transmission** process is **restarted**.

ADVANTAGE - Enables identification of error generation, quickly. Reduces **printing** load to operator. Improves **printing** efficiency.

Dwg.1/21

Title Terms: INFORMATION; PROCESSOR; **PRINT** ; RECEIVE; INFORMATION; STATE; IMAGE; FORMING; UNIT; NEW; GENERATE; COMMUNICATE; CHANNEL; BASED; INTERRUPT; IMAGE; TRANSMISSION; PROCESS; RESTART

Derwent Class: P75; T01

International Patent Class (Main): G06F-003/12

International Patent Class (Additional): B41J-029/38

File Segment: EPI; EngPI

17/5/42 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011325207 \*\*Image available\*\*

WPI Acc No: 1997-303111/ 199728

XRPX Acc No: N97-250692

**Data printing system - has printer that cancels, discontinues, or resumes printing based on distinguished kind of command from host computer**

Patent Assignee: CANON KK (CANO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9114608	A	19970502	JP 95295948	A	19951020	199728 B

Priority Applications (No Type Date): JP 95295948 A 19951020

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9114608	A	18	G06F-003/12	

Abstract (Basic): JP 9114608 A

The system includes a host computer (1) provided with an input unit (7) that inputs a **printing** data and a command which indicates cancellation of **printing** process, discontinuation or **resumption**. A centronics port (8) **transmits** the input command to a laser **printer** (3). A CPU (10) distinguishes the kind of command received by the **printer** from the host computer. When the **received** command is distinguished as a **discontinuation** indication command, the **printing** process of an applicable page is completed during **printing** process execution and the **printing** of the following page is interrupted.

When **received** command is distinguished as a **resumption** indication command, the interrupted **printing** process of the following



page is **resumed** . When the **received** command is distinguished as a **cancellation** indication command, all the **printing** data not **printed** in the **printer** is cancelled. A new **printing** instruction is provided to the CPU.

ADVANTAGE - Prevents unnecessary **printing** thus effectively utilising **printing** paper and toner. Utilises laser **printer** which does not need additional new hardware. Prevents loosening of position relation between **printer** and host computer.

Dwg.1/16

Title Terms: DATA; **PRINT** ; SYSTEM; **PRINT** ; CANCEL; DISCONTINUE; **PRINT** ;  
BASED; DISTINGUISH; KIND; COMMAND; HOST; COMPUTER  
Derwent Class: P75; T01; T04  
International Patent Class (Main): G06F-003/12  
International Patent Class (Additional): B41J-005/30; B41J-029/38  
File Segment: EPI; EngPI

17/5/43 (Item 25 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011196521 \*\*Image available\*\*

WPI Acc No: 1997-174446/ 199716

XRPX Acc No: N97-144056

**Data transfer system for local area network printer - has file transfer resumption indicator that indicates resumption of transfer of designated files**

Patent Assignee: MINOLTA CAMERA KK (MIOC )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9039310	A	19970210	JP 95198787	A	19950803	199716 B
JP 3239702	B2	20011217	JP 95198787	A	19950803	200203

Priority Applications (No Type Date): JP 95198787 A 19950803

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9039310	A		7	B41J-005/30	
JP 3239702	B2		7	B41J-005/30	Previous Publ. patent JP 9039310

Abstract (Basic): JP 9039310 A

The system has a file **transfer interrupter** which **discontinues** the **transfer** of a file from a data processor (3-6) to a **printer** (1). A file **transfer resumption** unit **resumes** the file **transfer** according to an indication of a file **transfer resumption** from the **printer** . A display (15) shows the file data of the files received during a file transfer.

A file designation receiving unit (17) receives a designated file, after which the data processor which transferred the file is corresponded. A file **transfer resumption** indicator indicates the **resumption** of file **transfer** . A memory (12) temporarily stores the transferred files which are later read by a **printing** unit during a **printing** operation.

ADVANTAGE - Allows reception of several file transfers without need for big memory capacity by **printing** only designated file.

Dwg.2/7

Title Terms: DATA; TRANSFER; SYSTEM; LOCAL; AREA; NETWORK; **PRINT** ; FILE;  
TRANSFER; RESUME; INDICATE; INDICATE; RESUME; TRANSFER; DESIGNATED; FILE  
Derwent Class: P75; T01; T04  
International Patent Class (Main): B41J-005/30  
International Patent Class (Additional): G06F-003/12  
File Segment: EPI; EngPI

17/5/44 (Item 26 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010359303      \*\*Image available\*\*

WPI Acc No: 1995-260617/ 199534

Printer **appts for repeated printing of data - prints output signal from control unit which controls data setting unit so as to restart transmission of printing data and command**

Patent Assignee: NEC HOME ELECTRONICS LTD (NIDF )

Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7164684	A	19950627	JP 93313720	A	19931214	199534 B

Priority Applications (No Type Date): JP 93313720 A 19931214

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 7164684	A	5	B41J-005/30	

Abstract (Basic): JP 7164684 A

The appts comprises a host system (1) that sends out a **printing** command (11) and **printing** data (12) to a receiving buffer (21). The buffer receives and stores the command and the data. When the transmitted data exceeds the storage capacity of the receiving buffer, the host system sends out the **printing** command. Then, a data setting unit (22) **stops transmission of printing data** from the host system. The data setting unit sends out a **printing start signal** (14) to a selection unit (23).

The selection unit selects the **printing** mode. If an one time **printing** mode (16) is selected, the data is **printed** once. On the other hand, if the data selection unit selects a repetition **printing** mode, the data is **printed** repeatedly. A control unit (25) controls the data setting unit to **restart transmission of printing command and printing data after printing**, from the host system. A **printing** unit (26) **prints** the data, based on the output signal from the control unit.

ADVANTAGE - Enables repeated **printing** of received data.  
Facilitates free renewal of data.

Dwg.1/2

Title Terms: **PRINT** ; APPARATUS; REPEAT; **PRINT** ; DATA; **PRINT** ; OUTPUT; SIGNAL; CONTROL; UNIT; CONTROL; DATA; SET; UNIT; SO; RESTART; TRANSMISSION; **PRINT** ; DATA; COMMAND

Derwent Class: P75; T01; T04

International Patent Class (Main): B41J-005/30

International Patent Class (Additional): G06F-003/12

File Segment: EPI; EngPI